May 6, 1953

Dr. P. R. Edwards
Box 185
Chamblee, Ga.

Dear Phil:

Thanks very much for N97 (b:-), just received.

I am rushing the enclosed on to you, for I thought you might be particularly interested in it. You will recall that Kauffmann's aberrant "gallinarum" turned out to be gm:-, but that I had some reservation (as in the ms.) as to the significance of the finding. Kauffmann's strain (SW-972) differs from most other gallinarum strains not only in its cultural behavior, but in its ability to trans-motilize SW-666. Until now, we had drawn a blank in getting FA to be manifested in phage grown on S. gallinarum. However, Bruce Stocker noticed that such phage would transmotilize S. typhi O-901, giving, as expected, all d:—. Both our attempts to get a flagellar antigen transduction out of gallinarum —x S. typhi H-901 with d serum were negative, probably because of the incidence of i phases. SW-1040 (S. miami —x S. typhi, IX XII a:—) looked as if it might be a more suitable recipient, and indeed it was:

S. gallinarum (#74) —x SW-1040 gave SW-1041, (gm)++

As before, I am forwarding the strain for single-factor typing. S. pullorum #75 did not give anything. I am looking at a number of additional strains of both. If the result can be repeated (and it was not difficult) it ought to be inserted in our ms.

I am not sure why SW-1040 worked better than H901. It may be more motile to begin with; it may be more amenable to transduction (having experienced one already and there are hints of the like with other experiments); most likely, my a is cleaner than my d serum anent inhibition of the gm phase.

Sincerely,

Joshua Lederberg